

# Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)  
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S11-LED-4FT-H-8-35-ITL85173.003.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85173.003 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]09/17/15  
[ISSUE DATE]04/21/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE S11-LED-4ft-H-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.3 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.1 WATTS  
[ABSOLUTE LUMENS]3565  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85173. For further details on Finelite family correlation files, go to  
[more][http://www.finelite.com/download\\_files/series\\_downloads/photometry\\_pdf/FL\\_Family\\_Correlation\\_WhitePaper.pdf](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3565
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	28.3
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.43 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	20.222	19.444	21.778	27.222	23.333	7.000	3.111	2.333	2.333
<b>95.0</b>	62.222	60.667	61.444	62.222	49.000	27.222	15.556	10.111	9.333
<b>97.5</b>	105.000	105.778	105.000	101.111	79.333	49.778	33.444	26.444	24.111
<b>100.0</b>	156.333	156.333	153.222	143.111	112.778	75.444	54.444	43.556	42.000
<b>102.5</b>	213.889	213.111	206.889	191.333	150.111	103.444	77.000	63.778	61.444
<b>105.0</b>	276.111	275.333	265.222	243.444	192.111	133.778	102.667	86.333	83.222
<b>107.5</b>	344.556	342.222	328.222	299.444	236.444	168.000	129.889	111.222	107.333
<b>110.0</b>	416.889	414.556	395.889	359.333	286.222	203.778	160.222	137.667	133.000
<b>112.5</b>	493.889	490.000	466.667	418.444	336.000	243.444	191.333	165.667	161.000
<b>115.0</b>	574.000	569.333	543.667	482.222	388.889	283.111	223.222	196.778	189.778
<b>117.5</b>	656.444	651.000	616.778	547.556	443.333	327.444	257.444	228.667	220.111
<b>120.0</b>	741.222	730.333	694.556	614.444	500.111	374.889	294.778	259.778	252.778
<b>122.5</b>	826.778	815.111	773.889	682.111	555.333	423.889	332.111	294.778	282.333
<b>125.0</b>	913.111	898.333	851.667	749.778	614.444	474.444	372.556	329.778	317.333
<b>127.5</b>	996.333	980.000	927.889	817.444	675.111	527.333	415.333	368.667	357.778
<b>130.0</b>	1075.667	1058.556	1001.000	882.778	735.778	580.222	458.889	407.556	395.111
<b>132.5</b>	1152.667	1134.000	1071.778	948.111	796.444	636.222	507.111	448.778	435.556
<b>135.0</b>	1223.444	1202.444	1136.333	1009.556	856.333	691.444	557.667	492.333	476.000
<b>137.5</b>	1287.222	1263.111	1196.222	1069.444	914.667	747.444	612.111	536.667	518.778
<b>140.0</b>	1344.000	1319.111	1250.667	1122.333	970.667	802.667	668.111	584.889	564.667
<b>142.5</b>	1392.222	1368.111	1298.889	1171.333	1024.333	857.111	724.111	636.222	612.111
<b>145.0</b>	1433.444	1410.111	1340.889	1215.667	1074.111	910.778	785.556	692.222	665.000
<b>147.5</b>	1466.889	1445.111	1376.667	1255.333	1121.556	962.889	840.778	752.111	721.778
<b>150.0</b>	1493.333	1472.333	1407.000	1290.333	1163.556	1012.667	898.333	815.111	783.222
<b>152.5</b>	1512.778	1493.333	1431.889	1320.667	1202.444	1058.556	953.556	876.556	847.778
<b>155.0</b>	1526.000	1508.889	1450.556	1347.111	1237.444	1105.222	1007.222	937.222	910.778
<b>157.5</b>	1531.444	1517.444	1464.556	1368.111	1268.556	1148.000	1058.556	994.000	971.444
<b>160.0</b>	1533.778	1521.333	1473.111	1386.000	1297.333	1188.444	1106.778	1049.222	1029.778
<b>162.5</b>	1532.222	1519.778	1477.778	1400.000	1321.444	1225.778	1155.000	1102.889	1081.111
<b>165.0</b>	1526.778	1513.556	1479.333	1410.889	1343.222	1260.000	1198.556	1154.222	1135.556
<b>167.5</b>	1515.889	1504.222	1474.667	1417.889	1359.556	1290.333	1238.222	1202.444	1186.889
<b>170.0</b>	1501.111	1490.222	1465.333	1421.778	1373.556	1319.111	1277.111	1246.778	1235.889
<b>172.5</b>	1482.444	1473.889	1453.667	1421.000	1383.667	1344.778	1312.111	1290.333	1281.778
<b>175.0</b>	1457.556	1452.111	1439.667	1417.111	1391.444	1365.778	1344.000	1329.222	1323.778
<b>177.5</b>	1429.556	1427.222	1420.222	1409.333	1396.889	1383.667	1372.778	1365.778	1361.889
<b>180.0</b>	1398.444	1398.444	1398.444	1398.444	1398.444	1398.444	1398.444	1398.444	1398.444

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	245.98	N.A.	6.90
90-120	626.69	N.A.	17.60
90-130	1175.29	N.A.	33.00
90-150	2491.83	N.A.	69.90
90-180	3565.22	N.A.	100.00
110-180	3319.24	N.A.	93.10
0-180	3565.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	48.34
100-110	197.64
110-120	380.72
120-130	548.59
130-140	654.47
140-150	662.08
150-160	564.43
160-170	376.82
170-180	132.14

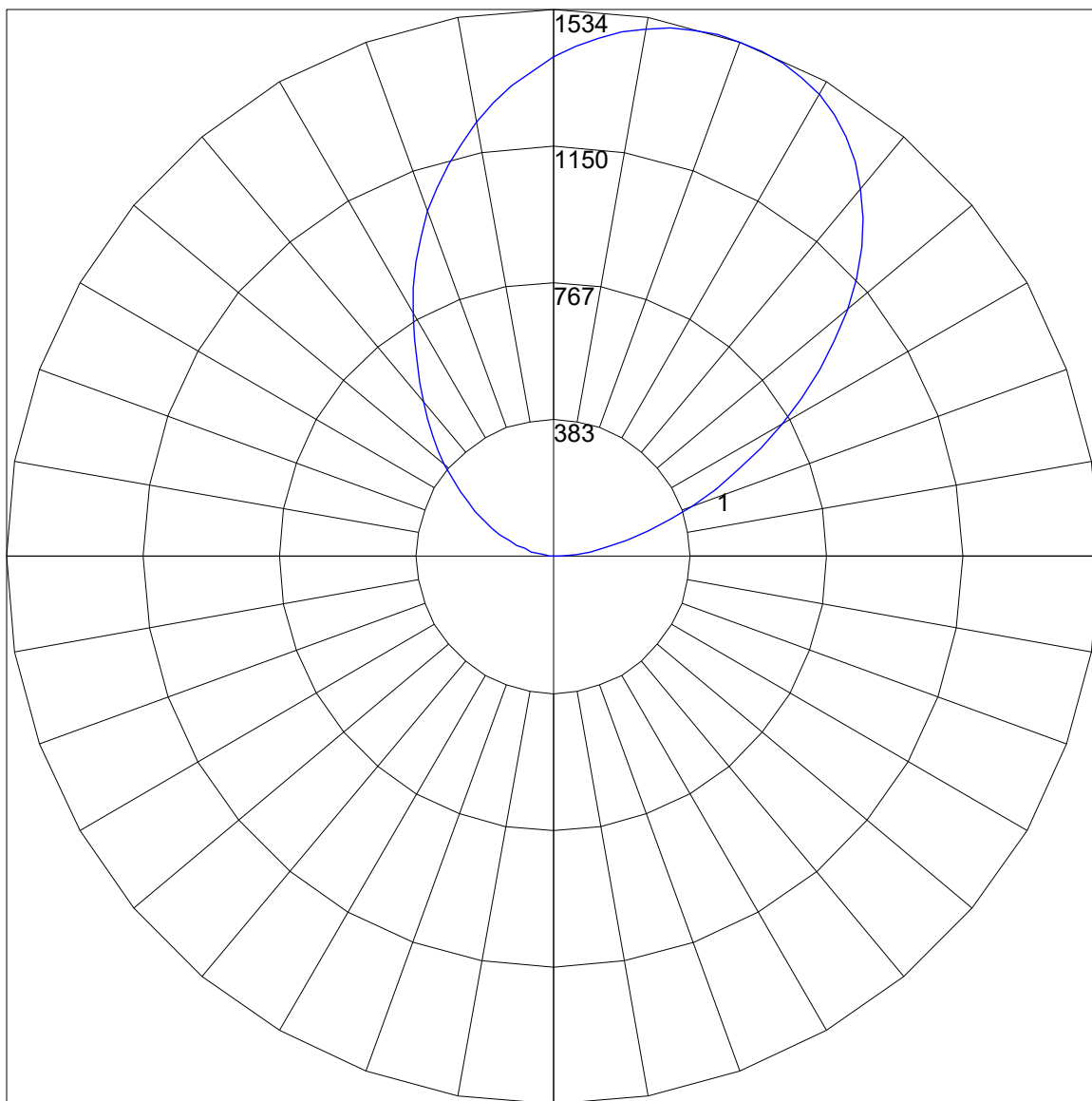
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1533.778 Located At Horizontal Angle = 0, Vertical Angle = 160  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)